

Atty Docket No. JCLA6244-C1-R

Serial No. 09/611,562

**AMENDMENTS****In The Claims:****Claims 1-5 (Canceled)**

6. (Currently Amended) A structure of heat transfer fin mounted within a heat exchanger that includes a plurality of heat transfer tubes penetrating through the heat transfer fin, wherein air is supplied orthogonally to said heat transfer tubes, and the heat transfer fin is partitioned in at least one fin unit in which arrays of slits are arranged in a row, the heat transfer fin being characterized in that the arrangement of the arrays of slits satisfies the following formula:

$$W_s \geq [1 - 0.1(6 - N)] \times W_f / (2N + 1)$$

wherein  $W_s$  = width of one slit,  $W_f$  = width of a fin unit, and  $N$  = the number of slits ~~on the number of heat transfer fins~~ per heat transfer fin unit.

7. (previously presented) The heat exchanger of claim 6, wherein each heat transfer tube has a diameter of about 7mm.

8. (previously presented) A structure of heat transfer fin mounted within a heat exchanger that includes a plurality of heat transfer tubes penetrating through the heat transfer fin, wherein air is supplied orthogonally to said heat transfer tubes, and the heat transfer fin is partitioned in at least one fin unit in which arrays of slits are arranged in a row, the heat transfer fin being characterized in that the width of each slit is within a range of about 0.17 to 0.29 times the diameter of one heat transfer tube.

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9. (previously presented) The heat exchanger of claim 8, wherein a diameter of one heat transfer tube is about 7mm.

10. (previously presented) A structure of heat transfer fin mounted within a heat exchanger that includes a plurality of heat transfer tubes penetrating through the heat transfer fin, wherein air is supplied orthogonally to said heat transfer tubes, and the heat transfer fin is partitioned in at least one fin unit in which arrays of slits are arranged in a row, the heat transfer fin being characterized in that the spacing between slits in each array is within a range of about 0.18 to 0.5 times the diameter of one heat transfer tube.

11. (previously presented) The heat exchanger of claim 10, wherein a diameter of one heat transfer tube is about 7mm.